

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

ant del back.	
APPLICATION FOR HCAI PREAPPROVAL OF	OFFICE USE ONLY
MANUFACTURER'S CERTIFICATION (OPM)	APPLICATION #: OPM-0428
HCAI Preapproval of Manufacturer's Certification (OPM)	
Type: New X Renewal/Update	
Manufacturer Information	
Manufacturer: Getinge IC Production Poland Sp. z o.o.	
Manufacturer's Technical Representative: Maciej Przybylak	
Mailing Address: ul. Szkolna 30 62-064 Plewiska Poland, Chino Hills, CA 9170	9
Telephone: (909) 606-7622 Email: maciej.przybylak@g	jetinge.com
NED TO ANY	
Product Information	- S
Product Name: LSS-450 AND LSS-590 STEAM STERILIZERS 0428	
Product Type: Other electrical and mechanical components	
Product Model Number: LSS-450 & LSS-590 BY: William Staehlin	
General Description: Steam Sterilizer used to sanitize medical instruments, go	wns, etc.
PATE: 04/03/2023	
Applicant Information	<u> </u>
Applicant Company Name: EASE LLC.	
Contact Person: Tiffany Tonn	

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

Mailing Address: 1515 FAIRVIEW AVE, STE 205, MISSOULA, MT 59801





Telephone: (406) 541-3273

Title: Office Manager

Email: tiffany@easeco.com



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

Registered Design Professonal Preparing Engineering	g Recommendations
Company Name: EASE LLC	
Name: Jonathan Roberson	California License Number: S4197
Mailing Address: 5877 Pine Ave., Suite 210, Chino Hills, CA 9	91709
Telephone: (951) 295-1892 Email: jor	@EASECo.com
HCAI Special Seismic Certification Preapproval (OSF	P)
Special Seismic Certification is preapproved under OSP	OSP Number:
-OR CO	ODECO
Certification Method	····· OND
Testing in accordance with: ICC-ES AC156 F	M 1950-16
Other(s) (Please Specify):	-0428
	ding Standards Code, 2022 (CBSC 2022) for component supports erior partition wall, and suspended ceiling seismic bracings, test sed when approved by HCAI prior to testing.
X Analysis	
Experience Data DATE: 04	/05/2023
Combination of Testing, Analysis, and/or Experience Data	(Please Specify):
PNI	B CODE
HCAI Approval	DING
Date: 4/5/2023	
Name: William Staehlin	Title: Senior Structural Engineer
Condition of Approval (if applicable):	

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"







5877 Pine Ave, Ste. 210 Chino Hills, CA. 91709 Phn: (909) 606-7622

The Department of Health Care Access and Information

PREAPPROVAL OF MANUFACTURER'S CERTIFICATION OPM-0428

THIS PREAPPROVAL CONFORMS TO THE 2022 CALIFORNIA BUILDING CODE

MANUFACTURER:

LANCER SALES USA, INC.

EQUIPMENT NAME: L

LSS-450 AND LSS-590 SERIES STEAM STERILIZER

VESSEL SIZE: 26"W X 39"L OR 51"L

Sheet: <u>1 of 9</u>

Date: 4/3/23

GENERAL NOTES

- 1. THIS HCAI PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2022 CBC. THE DEMANDS (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2022 CBC
- 2. THIS DOCUMENT MAY ONLY BE USED WITH THE EXPRESS WRITTEN CONSENT OF THE MANUFACTURER LISTED ABOVE FOR THE SPECIFIC PROJECT SITE AND INSTALLATION LOCATION. THIS DOCUMENT IS INVALID WITHOUT SUCH CONSENT.
- 3. THIS PREAPPROVAL CONFORMS TO THE 2022 CALIFORNIA BUILDING CODE WHERE SDS IS NOT GREATER THAN 1.00, 185 & 1.25. SEE DETAIL FOR APPLICABILITY
- 4. FORCES PER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3,
 - WHERE SDS = 1.00, a_p = 1.0, I_p = 1.5, R_p = 1.5, z/h = 0 AT CONCRETE SLAB. SEE FOLLOWING SHEETS FOR Ω_0
 - WHERE SDS = 1.85, a_p = 1.0, I_p = 1.5, R_p = 1.5, z/h = 0 AT CONCRETE SLAB. SEE FOLLOWING SHEETS FOR Ω_0
 - WHERE SDS = 1.25, a_p = 1.0, I_p = 1.5, I_p = 1.5,
- THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
- 6. ALL DESIGN FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGTH DESIGN.
- 7. CONCRETE SLAB ON METAL DECK DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION IN THE BUILDING. (i.e. z/h < 1)
- 8. CONCRETE SLAB DETAIL VALID FOR DEMANDS SHOWN AT OR BELOW GRADE. (i.e. z/h = 0)

9. RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD OF THE BUILDING

- A. PROVIDE SUPPORTING STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN IN ADDITION TO ALL OTHER LOADS.
- B. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2022 CBC AND WITH THE DETAILS, MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PREAPPROVAL DOCUMENTS.
- C. VERIFY THAT PROJECT SPECIFIC VALUES OF SDS & z/h RESULT IN SEISMIC FORCES (En, Ev) THAT DO NOT EXCEED THE VALUES ON THE DETAILS.
- D. VERIFY THAT THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ANCHORED MEETS THI REQUIREMENTS OF THE APPLICABLE ICC ESR REPORT. AND THIS OPM.
- E. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPENINGS (SEE TYPICAL DETAIL ON SHEET 2).
- F. VERIFY THAT ALL NEW OR EXISTING ANCHORS ARE AN ADEQUATE DISTANCE FROM THE UNIT ATTACHMENTS AND CHECK FOR INTERACTION WHERE OTHER ANCHORS ARE WITHIN 18" OR 6hef FROM THIS UNIT'S ANCHORS.



www.EquipmentAnchorage.com

LANCER SALES USA, INC.

DES. J. ROBERSON

SHEET

JOB NO. 36-2301 DATE 4/3/23

. **9** sheets

LSS-450 AND LSS-590 SERIES STEAM STERILIZER VESSEL SIZE: 26"W X 39"L OR 51"L

10. EXPANSION ANCHORS:

A. ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT.

Anchor Diameter	Concrete Type	Min. f'c (psi)	Anchor Type	ICC Report No.	Min. Embed.	Min. Spacing	Min. Edge Dist.	Min. Conc. Thickness	Torque Test	Direct Tension Test
3/8"	Sand Light Weight	3000	Hilti Kwik Bolt TZ	ESR-4266	2"	6.75"	3"	See Detail "A"	30 FT-LB	N/A
1/2"	Normal Weight	3000	Hilti Kwik Bolt TZ2	ESR-4266	2"	6"	14"	4"	40 FT-LB	1605 lb
1/2"	Normal Weight	3000	Hilti Kwik Bolt TZ2	ESR-4266	3.25"	6"	24"	6"	40 FT-LB	2685 lb

- B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 14 OR 24" AWAY MINIMUM (i.e. - CORNER).
 SEE ADJACENT DETAIL FOR ADDITIONAL MINIMUM ALLOWABLE CONCRETE
 EDGE DISTANCES.
- C. TESTING AND SPECIAL INSPECTION OF EXPANSION ANCHORS SHALL

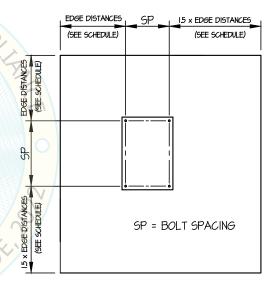
 BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY

 EMPLOYED BY THE FACILITY OWNER PER CBC 1704A & 1910A.5

 AND CAC 7-149. ALL REPORTS SHALL BE SENT TO THE INSPECTOR

 OF RECORD, OWNER AND THE ARCHITECT OR ENGINEER IN

 RESPONSIBLE CHARGE.
 - (i) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION, / 2 O DIRECT PULL TENSION TEST OR TORQUE TEST AT LEAST 50% OF THE ANCHORS.
 - (ii) ACCEPTANCE CRITERIA:
 - DIRECT TENSION TEST: THE ANCHOR SHOULD HAVE NO
 OBSERVABLE MOVEMENT AT THE TEST LOAD, A PRACTICAL WAY
 TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER
 BECOMES LOOSE.
 - TORQUE TEST: THE APPLICABLE TORQUE MUST BE ACHIEVED WITHIN THE FOLLOWING LIMITS: WEDGE TYPE: 1/2 TURN OF THE NUT
 - (iii) IF ANY ANCHOR FAILS, TEST ALL ANCHORS.
- D. AVOID DAMAGING EXISTING STEEL REINFORCING IN CONCRETE SLAB WHEN INSTALLING CONCRETE EXPANSION ANCHORS.
- E. PROVIDE FOR FULL THREAD ENGAGEMENT OF NUT & WASHER.
- 11. BOLTS THROUGH CONCRETE ON METAL DECK
 - A. BOLTS SHALL BE TORQUED BY 3/4 TURN OF THE NUTS AFTER THE SNUG TIGHT (THE SNUG-TIGHT CONDITION IS DEFINED AS THE TIGHTNESS REQUIRED TO BRING THE CONNECTED PLIES INTO FIRM CONTACT) CONDITION IS ACHIEVED, UNLESS OTHERWISE NOTED.
 - B. THROUGH BOLT HOLES SHALL BE 1/16" LARGER THAN BOLT SIZE (HOLE SIZE = BOLT SIZE + 1/16) FOR CONCRETE.
 - C. THROUGH-BOLTS IN CONCRETE SHALL RECEIVE SPECIAL INSPECTION AND TESTING (THROUGH BOLTS WITH STEEL TO STEEL CONNECTION IN TENSION DO NOT REQUIRE TENSION TESTING) IN ACCORDANCE WITH REQUIREMENTS FOR POST-INSTALLED ANCHORS.



TYPICAL CONCRETE EDGE DETAIL



www.EquipmentAnchorage.com

LANCER SALES USA, INC.

DE8. J. ROBERSON

JOB NO. 36-2301

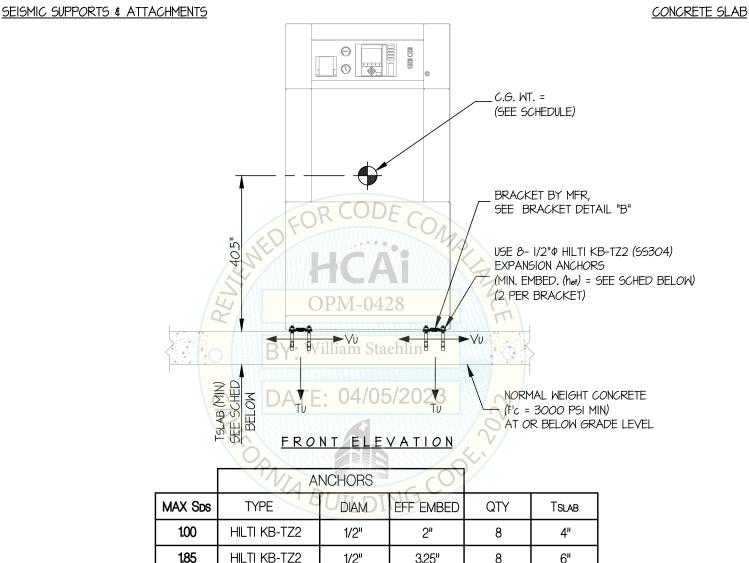
3

SHEET

DATE 4/3/23

F 9 SHEETS

LSS-450 AND LSS-590 SERIES STEAM STERILIZER VESSEL SIZE: 26"W X 39"L OR 51"L



NOTES:

- 1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: $\Delta_p = 1.0$, $I_p = 1.5$, $\Omega_0 = 2.0$, z/h = 0)
- 2. THIS PREAPPROVAL ENCOMPASSES WEIGHTS AND VERTICAL CG POSITIONS UP TO THE VALUES SHOWN.
- 3. THIS PREAPPROVAL WAS PREPARED WITHOUT KNOWLEDGE OF ANY SITE CONDITION. COMPATIBILITY FOR USE WITH A SITE SHALL BE EVALUATED BY THE STRUCTURAL ENGINEER OF RECORD OF THE INSTALLATION (SEOR). USE REQUIRES APPROVAL BY THE SEOR.
- 4. STRUCTURAL ENGINEER OF RECORD FOR THE INSTALLATION SHALL VERIFY ALL CONDITIONS, EVALUATE INTERACTION WITH ADJACENT EQUIPMENT AND ANCHORS, AND PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.
- 4. SEE GENERAL NOTES: SHEETS 1 AND 2



www.EquipmentAnchorage.com

LANCER SALES USA, INC.

DES. J. ROBERSON

36-2301

LSS-450 AND LSS-590 SERIES STEAM STERILIZER
VESSEL SIZE: 26"W X 39"L OR 51"L

DATE 4/3/23

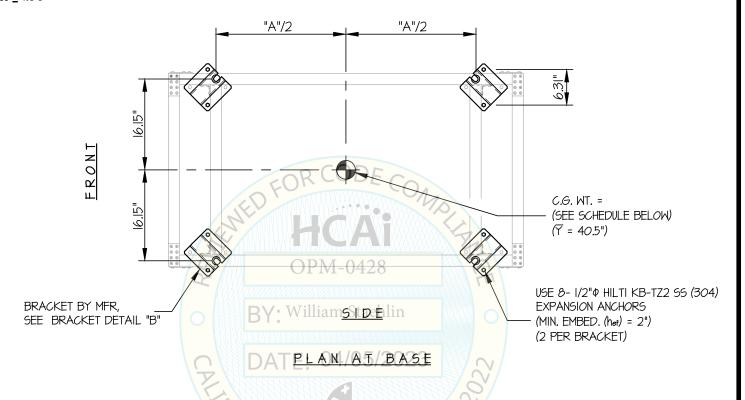
JOB NO.

_F 9 sheets

CONCRETE SLAB

SEISMIC SUPPORTS & ATTACHMENTS

Sps < 1.00



MODEL	TYPE	INSTALLATION MANUAL	VESSEL LENGTH (in)	WEIGHT (lb.)	"A" (in)	* Tu (lb.)	* Vu (lb.)
LSS-450	STEAM STERILIZER	6013195301	JTI 39 TN	2099	34.1	787	726
LSS-590	STEAM STERILIZER	6013195301	51	2360	46.1	818	816

^{*} VALUES INCLUDE Ω_{\bullet}



www.EquipmentAnchorage.com

LANCER SALES USA, INC.

LSS-450 AND LSS-590 SERIES STEAM STERILIZER

VESSEL SIZE: 26"W X 39"L OR 51"L

36-2301 JOB NO.

DES. J. ROBERSON

SHEET

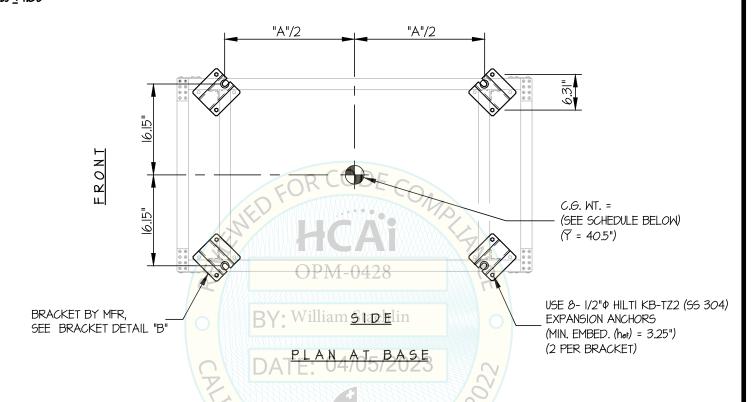
4/3/23 DATE

SHEETS

CONCRETE SLAB

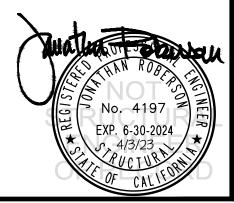
SEISMIC SUPPORTS & ATTACHMENTS

Sps ≤ 1.85



MODEL	TYPE	INSTALLATION MANUAL	VESSEL LENGTH (in)	WEIGHT (lb.)	"A" (in)	* Tu (lb.)	* Vu (lb.)
LSS-450	STEAM STERILIZER	6013195301	BUI39DIV	2099	34.1	1736	1347
LSS-590	STEAM STERILIZER	6013195301	51	2360	46.1	1827	1514

^{*} VALUES INCLUDE Ω_{o}



www.EquipmentAnchorage.com

LANCER SALES USA, INC.

JOB NO. 36-2301

SHEET 6

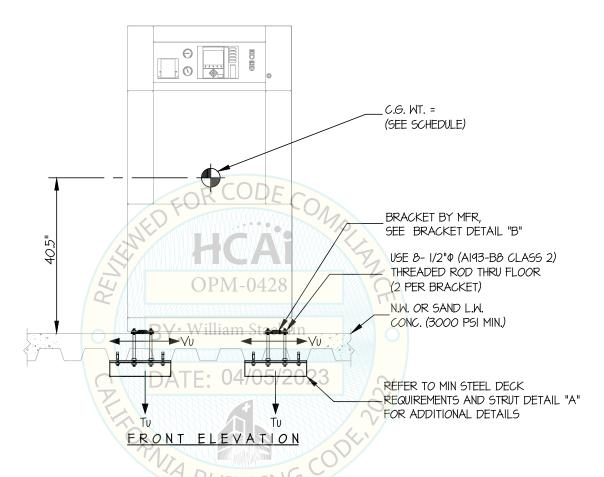
LSS-450 AND LSS-590 SERIES STEAM STERILIZER VESSEL SIZE: 26"W X 39"L OR 51"L

DATE 4/3/23

_F 9 <u>sheets</u>

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK



NOTES:

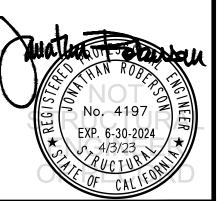
FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: SDS = 1.25, α_p = 1.0, β_p = 1.5, β_p = 1.5, β_p = 2.0, β_p = 2.0, β_p = 1.5, $\beta_$

HORIZONTAL FORCE (Eh) = 1.50 Wp

HORIZONTAL FORCE (Emh) = 3.00 Wp (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (Ev) = 0.25 Wp

- 2. THIS PREAPPROVAL ENCOMPASSES WEIGHTS AND VERTICAL CG POSITIONS UP TO THE VALUES SHOWN.
- 3. THIS PREAPPROVAL WAS PREPARED WITHOUT KNOWLEDGE OF ANY SITE CONDITION, COMPATIBILITY FOR USE WITH A SITE SHALL BE EVALUATED BY THE STRUCTURAL ENGINEER OF RECORD OF THE INSTALLATION (SEOR), USE REQUIRES APPROVAL BY THE SEOR.
- 4. STRUCTURAL ENGINEER OF RECORD FOR THE INSTALLATION SHALL VERIFY ALL CONDITIONS, EVALUATE INTERACTION WITH ADJACENT EQUIPMENT AND ANCHORS, AND PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.
- 4. SEE GENERAL NOTES: SHEETS 1 AND 2



www.EquipmentAnchorage.com

LANCER SALES USA, INC.

DES. J. ROBERSON 36-2301

SHEET

LSS-450 AND LSS-590 SERIES STEAM STERILIZER VESSEL SIZE: 26"W X 39"L OR 51"L

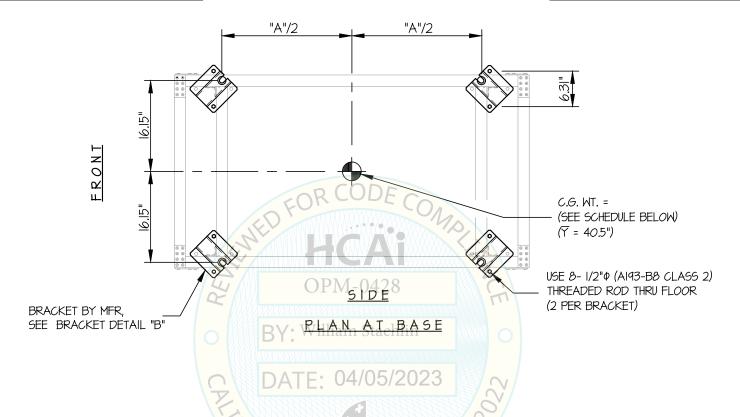
4/3/23 DATE

JOB NO.

SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK



MODEL	TYPE	INSTALLATION MANUAL	VESSEL LENGTH (in)	WEIGHT (lb.)	"A" (in)	* Tu (lb.)	* Vu (lb.)
LSS-450	STEAM STERILIZER	6013195301	UI 39 IN	2099	34.1	1497	1210
LSS-590	STEAM STERILIZER	6013195301	51	2360	46.1	1571	1360

^{*} VALUES DO NOT INCLUDE $\Omega_{
m o}$



EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.EquipmentAnchorage.com

LANCER SALES USA, INC.

DES. J. ROBERSON

4/3/23

JOB NO. 36-2301

DATE

8

SHEET

OF 9 SHEETS

FLUTE DETAIL

LSS-450 AND LSS-590 SERIES STEAM STERILIZER VESSEL SIZE: 26"W X 39"L OR 51"L

SEISMIC SUPPORTS & ATTACHMENTS CONCRETE DETAILS 30" MIN PROVIDE FULL THREAD ENGAGEMENT EDGE DISTANCE OF BOLT INTO COMPONENT N.W. OR SAND L.W. CONC. (3000 PSI MIN.) **EQUIPMENT** MIN 12" (MIN) TYP I" MAX **OFFSET** Vu STRUT MIN 20 GA (TYP) STEEL W-DECK 4.5" I" MIN FLUTE USE 3/8" HILTI KB-TZ MIN EXPANSION ANCHORS Œ (MIN. EMBED. (het) = 2")

(2 ANCHORS MIN PER STRUT)
L3 X 3 X I/4" X I'-2" MIN
(A36) AT EACH ANCHOR
(EXTEND ANGLE TO

ADJACENT FLUTE WHEN
THREADED ROD OCCURS AT FLUTE)

OP HEX NUT TOP & BOT OF FLANGE
(TYP) AT CONDITIONS WHERE NUT
—— CANNOT BE PROVIDED AT TOP SIDE
WILLIAM OF STRUT, PROVIDE TAPPED HOLE
THROUGH STRUT FLANGE.

DATE: 04/05/2023

PNIA BUILDING COD

MIN STEEL DECK REQUIREMENTS AND STRUT DETAIL



EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.EquipmentAnchorage.com

ANCER SALES USA, INC.

36-2301 JOB NO.

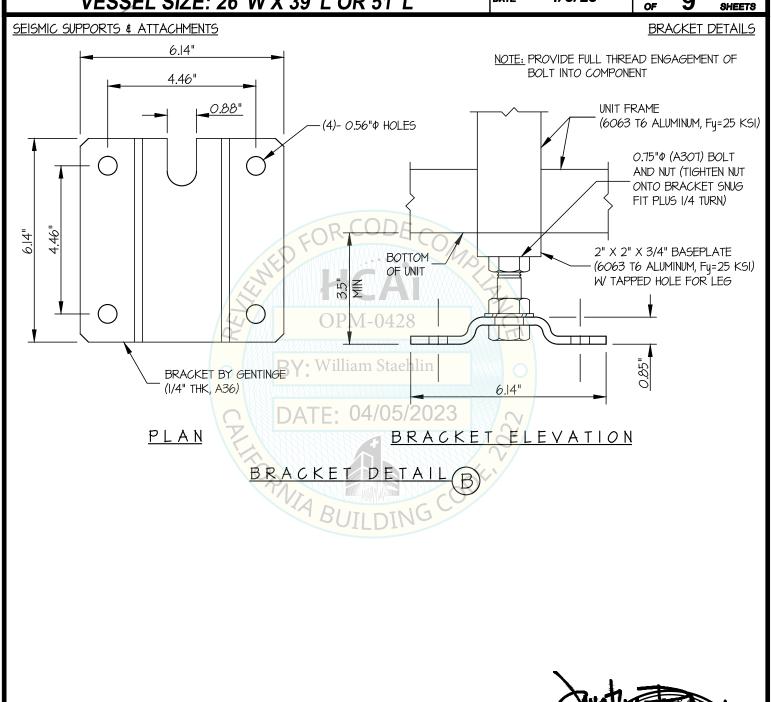
DES. J. ROBERSON

SHEET

LSS-450 AND LSS-590 SERIES STEAM STERILIZER VESSEL SIZE: 26"W X 39"L OR 51"L

4/3/23 DATE

SHEETS



No. 4197 EXP. 6-30-2024